

MULTIPLE INPUT DC-DC POWER CONVERTER

ABSTRACT OF THE DISCLOSURE

Apparatuses and methods for converting a plurality of dc input voltages from a plurality of voltage sources to at least one dc output voltage. An apparatus embodiment includes a plurality of voltage inputs. A respective current-conducting-bidirectional-voltage-blocking switch is in an electrical path from each of the voltage inputs. A magnetically inductive device is in an electrical path from each of the current-conducting-bidirectional-voltage-blocking switches. A voltage output is in an electrical path from the magnetically inductive device.

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